



1655

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Bengt Mannervik  
Serial No. : 10/534,998  
Filed : November 9, 2005  
Title : INHIBITORS OF GST A3-3 AND GST A1-1 FOR THE TREATMENT OF  
CANCER

Art Unit : 1655  
Examiner : Bin Shen  
Conf. No. : 1999

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No.: 13425-169US1.

Respectfully submitted,

Date:

August 15, 2006

John T. Kendall  
John T. Kendall, Ph.D.  
Reg. No. 50,680

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906  
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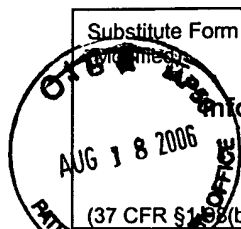
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Signature

Jonathan N. Leach

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Jonathan N. Leach

|  |   |  |                                       |                                 |
|--|---|--|---------------------------------------|---------------------------------|
|  | Substitute Form PTO-1449  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>13425-169US1 | Application No.<br>10/534,998   |
|  | <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  |                                       | Applicant<br>Bengt Mannervik    |
|  | (37 CFR §1.92(b))   |  |                                       | Filing Date<br>November 9, 2005 |

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee         | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|------------------|-------|----------|----------------------------|
|                  | AA        | 6,063,570       | 05/16/00         | McGonigle et al. |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
|                  | AB        | WO 00/18937     | 04/06/00         | WIPO                     |       |          |             |    |
|                  | AC        | WO 96/32936     | 10/24/96         | WIPO                     |       |          |             |    |
|                  | AD        | WO 95/20601     | 08/03/95         | WIPO                     |       |          |             |    |
|                  | AE        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | AF        | Henry, R. et al., "Inhibition of glutathione-S-aryltransferase from rat liver by organogermanium, lead and tin compounds", <i>Biochemical Pharmacology</i> , Vol. 25, No. 20, pp. 2291-2295 (1976).  |
|                  | AG        | Hiratsuka, A. et al., (S)-Preferential detoxification of 4-hydroxy-2(E)-nonenal enantiomers by hepatic glutathione S-transferase isoforms in guinea-pigs and rats", <i>Biochem J.</i> , Vol. 355, pp. 237-244 (2001).  |
|                  | AH        | Johansson, A. et al., "Active-Site Residues Governing High Steroid Isomerase Activity in Human Glutathione Transferase A3-3, <i>The Journal of Biological Chemistry</i> , Vol. 277, No. 19, pp. 16648-16654, (2002).   |
|                  | AI        | Johansson, A. et al., "Human Glutathione Transferase A3-3, a Highly Efficient Catalyst of Double-bond Isomerization in the Biosynthetic Pathway of Steroid Hormones", <i>The Journal of Biological Chemistry</i> , Vol. 276, No. 35, pp. 33061-33065 (2001). |
|                  | AJ        | Krengel, U. et al., "Crystal structure of a murine $\alpha$ -class glutathione S-transferase involved in cellular defense against oxidative stress", <i>FEBS</i> 19794, Vol. 422, pp. 285-290, (1998).   |
|                  | AK        | Mannerik, B. et al., "Measurement of glutathione transferases, in 'Current Protocols in Toxicology'", (M.D. Maines, L.G. Costa, D.J. Reed, S. Sassa, and I.G. Sipes, eds.), John Wiley & Sons, New York, pp. 6.4.1-6.4.10, (1999).                           |
|                  | AL        | Mannervik, B. et al., "Glutathione Transferases - structure and catalytic activity", <i>CRC Crit. Rev. Biochem.</i> , Vol. 23, pp. 283-337, (1988).  |
|                  | AM        | Sheehan, D. et al., "Structure function and evolution of glutathione transferases: implications for classification of non-mammalian members of an ancient enzyme superfamily", <i>Biochem J.</i> , Vol. 360, pp. 1-16, (2001).                               |
|                  | AN        | Stark, T. et al., "Expression of glutathione transferase isoenzymes in the human H295R adrenal cell line and the effect of forskolin", <i>J. Biochem. Mol. Toxicol.</i> , Vol. 16, pp. 169-173, (2002).  |

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|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |